

From boatanchors@theporch.com Wed Jan 31 21:46:22 1996
From: "Homer Blincoe"
<"blincoe_h%Organization=ELEC_SYST_ENGR%Telephone=4211"@a1.clust>
Subject: "swing" chokes

In answer to the "swing choke" question about what they are useful for:

A swing choke is used from the output of a rectifier to a capacitor to ground. The swing feature prevents the capacitor from charging up to the peak of the sine wave on lighter loads, thereby greatly improving the passive voltage regulation of the supply. If the load on the supply does not have high enough low level current, it has been the practice to add a lower resistance than usual "bleeder" resistor. About a 5 to 1 change in inductance is about all that can be achieved in such a choke, so this is about all the variation in current that can be handled.

Most ham transmitter equipment in the latter development of tube type finals, used very large capacitors, and actually operate close to the sine wave peak, even at full output...thereby eliminating the need for a swing choke...with resonances having very high current capacity service, the high peak currents are usually no problem to obtain. Aluminum electrolytics are a lot lighter in weight, cost less, and probably take up little more room than an iron core inductor.

I haven't done an analysis of what might happen, but it doesn't seem likely to me that the swing feature would be desirable in a choke used for Heising modulation.

----- End of Forwarded message

From boatanchors@theporch.com Wed Jan 31 21:46:22 1996
From: Conard Murray <cfm@tntech.edu>
Subject: 160 M QRG
Message-ID: <01I0NUT98ZIQ9TGFTFT@tntech.edu>

-- [From: Conard Murray * EMC.Ver #2.5.02] --

Hello list-readers!

Just another reminder of the nightly BA/Glowbug qso party. Bob, NA4G was on last night with an excellent signal from his BC-375 (and of course Big Bertha) and I was on with the trusty TCS. We meet around 0300Z on 1802.5 and lately have been QSY to 3702.5 at 0400Z for the antenna-impaired. Please join us as often as you can. Speed is no issue with us. Heck, we will even work you on a non-hollowstate rig ... just use a key/keyer of some

sort and jump right in.

See you on the ether,
ZUT! de Conard, ws4s

P.S. If you haven't seen the photos of Bob's creations, feel free to check out my ftp server at triode.cc.tntech.edu. There are some other interesting files on there too.

From boatanchors@theporch.com Wed Jan 31 21:46:22 1996
From: dlkerl@elvis.b11.ingr.com (Dan Kerl)
Subject: Re: 811A tubes, and 30L-1s
Message-ID: <199601312053.AA14812@elvis.b11.ingr.com>

Steve Kd2Ed asks...

> I just got the Antique Electronic Supplies catalog and see that
> there are more flavors to 811's than there are to Ben & Jerrys.
> What's the story? For instance they show (just for Svetlana
> tubes) an 811A, and 811A-3 and an 811A-10. Then there is SOVTEK and

The 811-3 and 811-10 are actually called SV811-3 and SV811-10, the numeric suffix referring to the mu of the tube. These are new design high dissipation triodes intended for audio use, and are not compatible (no plate cap, etc.). It's probable that the internal structure borrows heavily from that of the 811A. Their 811A has received many good reviews. According to the data sheet, this tube is manufactured in Russia at the Electronpribor Manufacturing Corporation in Ryazan, rather than at Svetlana's plant in St. Petersburg. They've been sold under their "Pride" line of transmitting tubes. Svetlana power tubes have some interesting technology such as active titanium getters that activate by heat given off by the tube's plate.

I don't know too much about the Chinese stuff; some things they seem to do OK on (some 2A3 triodes), some stuff is trash (6550s). The Shugang plant seems to produce tubes with gas problems.

Sovtek is not a particular manufacturer of tubes; it is a trademark owned by Mike Matthews of New Sensor corp. They market tubes from a variety of Russian plants. I don't know who makes Sovtek's 811A.

Check out Svetlana's web page

<http://www.svetlana.com/>

Dan Kerl
dlkerl@ingr.com

"...not affiliated with Svetlana..."

From boatanchors@theporch.com Wed Jan 31 11:22:24 1996
From: Fire Bottle archive handler <firebotl@jackatak.theporch.com>
Subject: Administrivia: OFF-Topic posts...
Message-ID: <9601302149.aa05032@jackatak.theporch.com>

Gang-

This is not an easy one... there have been some utterly wonderful excursions off the narrowest interpretations of "BoatAnchors -- The List" in the past...

HOWEVER, most had at least a BoatAnchor beginning...

Recently there have been several "OFF-topic" posts that really don't belong on the list.

It is very easy to think of the BoatAnchors list as a friendly gathering of folks, where *any* question is fair game...

THIS IS *NOT* SO!!! This list was created, four years ago, to discuss vintage firebottle radios...

it is *NOT* for questions about VE Test sessions... there are other places to find them (email me for details if you seriously don't know how to find out)

it is *NOT* for completing personal transactions... and especially not so because your mailer doesn't permit you to respond directly. In all seriousness, I sympathize with you, but it is NOT the BA List's problem, and there are nearly 900 people who really would rather not see the gory details of a trade or sale in the making... (I have offered before, and will again, to look up addresses for people... PLEASE do not burden the list with this "stuff"*)

it is *NOT* for questions about how to find the vintage solid-state list, or for discussions about newsgroups and the net in general... the really neat Web Sites that John Brewer and others have put together are fine for a mention, but how to develop a web site or page is way off-topic and does NOT belong here...

Just in case you are wondering what is and is NOT appropriate to the list, why not send a message to:

listproc@theporch.com

and in the body ask it to send you:

get boatanchors welcome

and THIS TIME READ IT!!!!!!!!!!!!!!

There is much good information there, of use to all... what is acceptable, and what is not... Phil's address for subscription payments... loads of useful information that many of you seem to have heaved when it arrived...

Enough of *this* off-topic excursion... BACK TO BOATANCHORS....

PLEASE STAY ON TOPIC! ;^)

--

73

Jack, W4PPT/Mobile (75M SSB 2-letter WAS #1657/#1789 -- both all mobile! ;^)

- - - BoatAnchor Mailing List Archiver/Owner - - -

firebot1@jackatak.theporch.com ---- listown@jackatak.theporch.com

From boatanchors@theporch.com Wed Jan 31 11:22:24 1996

From: Kevin Pease <hamradio@mm1001.theporch.com>

Subject: Re: AVC/AGC

Message-ID: <Pine.LNX.3.91.960130193819.13715B-100000@mm1001.theporch.com>

Kevin Pease

WB0JZG Mount Juliet, TN.

On Tue, 30 Jan 1996, Bob Roehrig wrote:

>

> Maybe my response didn't get sent. I have the same problem with my
> HRO-M on the 14-30 MC band. In fact the manual says that when aligning
> the unit, the mixer and osc trimmer adjustments will interact.
> It will drift with either AGC or manual RF gain change. I have installed
> a regulator that powers both the osc and the mixer and this eliminated
> the problem on lower bands but not 14-30 MC. What are other HRO users'
> experiences? Is there a cure?

>

The problem is caused by the fact that the IF is 455khz which leaves the oscillator very close in frequency to the rf circuits. Add to that the lower impedance imposed by the interelectrode capacitance and the broader frequency response of the RF circuits. (Q defines a ratio and at 20 mhz

.455 mhz is a small ratio well within the coils bandwidth) and what happens is the RF circuits start to suck energy out of the LO and it causes a frequency drift because of the interaction.

From boatanchors@theporch.com Wed Jan 31 11:22:24 1996
From: Kevin Pease <hamradio@mm1001.theporch.com>
Subject: Re: AVC/AGC
Message-ID: <Pine.LNX.3.91.960130194245.13715C-1000000@mm1001.theporch.com>

Mike my HQ-120 and SP-200 also suffer from the same problem. Could it be that the changing grid bias affects the interelectrode capacitance ?

Kevin Pease
WB0JZG Mount Juliet, TN.

From boatanchors@theporch.com Wed Jan 31 21:46:22 1996
From: Michael.J.Knudsen@att.com
Subject: Re: AVC/AGC
Message-ID: <9601311743.AA07324@bock.ih.att.com>

About Bob's HRO -- does that set have a separate HFO, or just a converter tube up front? I'd expect a separate osc, so you'd think the set wouldn't pull the osc with variation in bias and gain in the mixer.

You could try removing AGC from the mixer stage -- then the problem HAS to go away. Or no supper, no TV and early to bed :-) Electrons are hard to discipline....

Does the HRO-M use the classic National pentode mixer with screen-grid injection? Screen current will vary with control grid bias (AVC or manual) and that may shift the oscillator loading enough to pull a few parts per million. Alignment trimmer interaction (pulling) is standard in any single-conversion set at high freqs, even a good old National.

BTW, despite what I said earlier, when I had the NC101X I *may* have noticed some pitch drift with varying RF gain. However, one nite I read the mail on a local 10m SSB net with no trouble -- tho I would've used manual RF gain for that, so hard to say. 73, mike k w9nrd/ae

From boatanchors@theporch.com Wed Jan 31 21:46:22 1996
From: Michael.J.Knudsen@att.com
Subject: Re: AVC/AGC
Message-ID: <9601311814.AA07338@bock.ih.att.com>

Well, the changing grid bias would affect the space charges of electrons between the grids, which might affect the capacitances, or the resistive loadings, or something. Hank?

>From the tube lineups in Moore's I seem to recall one hi-end rx using a buffer tube (cathode follower?) between the HFO and the mixer. Sounds like a good way to throw tubes at the problem, and beats some other ways of tossing in extra tubes in premium rcvrs (my opinion only).

Dual conversion reduces trimmer pulling. Does it seem to help with AVC shifting? Time to play with the SP600 or the little Pierson. 73, mike k w9nrd/ae

From boatanchors@theporch.com Wed Jan 31 21:46:22 1996
From: Henry van Cleef <vancleef@bga.com>
Subject: Re: AVC/AGC
Message-ID: <199601311927.NAA02244@zoom.bga.com>

As Michael.J.Knudsen@att.com said

>
> About Bob's HRO -- does that set have a separate HFO, or just a converter tube
> up front? I'd expect a separate osc, so you'd think the set wouldn't
> pull the osc with variation in bias and gain in the mixer.
>
> You could try removing AGC from the mixer stage -- then the problem HAS to
> go away. Or no supper, no TV and early to bed :-) Electrons are hard
> to discipline....
>
> Does the HRO-M use the classic National pentode mixer with screen-grid
injection?

The HRO-M uses a 6C6 mixer and a 6C6 local oscillator. The mixer is not on the AVC bus. Controlled stages are the 1st and 2nd RF, and 1st IF. The HRO-5 uses octal tubes (6J7) in the same circuit configuration. HRO5A1 changes the oscillator to a 6J5. HRO-7 uses a 6C4 oscillator, and includes a 0A2 in the oscillator plate circuit.

All of these oscillators are configured as grounded-plate Hartleys, with the oscillator cathode pumping the screen of the mixer pentode through a cap. The sets using pentode oscillators have what looks to be some sort of neutralization network in the oscillator screen. I'd have to sit down and spend some time figuring out how this works.

The coupling cap used between the oscillator cathode and the mixer screen is a .01 600 volt in the HRO-M. If the set had a wandering oscillator that didn't clear up with another tube, I'd pay some attention to that cap.

--

Hank van Cleef vancleef@bga.com vancleef@tmn.com

From boatanchors@theporch.com Wed Jan 31 21:46:22 1996
From: Ken Corwin <kenc@smartdocs.com>
Subject: BC-224/BC-348 Receivers
Message-ID: <Pine.SUN.3.91.960131112458.22072A-100000@warp10.smartlink.net>

Greetings, Boatanchorites-

Recently, BC-348s have been discussed on this list as if they were going out of style (I guess they are, come to think of it). Some of the information offered about these receivers, while well intended, has been misleading. I believe the following information to be factual but I have also made my share of mistakes. A word to the wise...

BC-348s began life as BC-224s. Designed by RCA in the mid-'30s to U. S. Army Signal Corps specs for a 14-volt DC powered aircraft receiver, the first production BC-224 by RCA was the BC-224-A. Based on the Army's experience with the BC-224-A, RCA redesigned the receiver to include four separate removable bandswitching coil modules and an improved dynamotor assembly. The redesigned receiver became the BC-224-B. Satisfied with the BC-224-B, the Army had RCA make a 28-volt DC version and called it the BC-348-B. There was no BC-348-A.

The BC-224-A, the BC-224-B, and the BC-348-B, tuned 1.5-18 mc in six bands. The Army had RCA again redesign the receiver to add a 200-500 kc band and compress the 1.5-18 mc coverage into the remaining five bands. This became the BC-348-C (I have no information about a BC-224-C). I believe this tuning range stayed constant for subsequent production of all models.

The BC-224-B/BC-348-B, and up, receivers used FT-154 mountings and DM-24 (14-V) or DM-28 (28-V) dynamotors. There is a hole in the dynamotor mounting flange, above the 5-screw terminal board, which is designed to pass a stud mounted on the receiver chassis if a dynamotor of correct primary voltage is being installed in the receiver.

The following chart provides a concise picture of the lineage of these receivers. A missing model letter doesn't mean the receiver didn't exist, only that I have no specific information about it.

=====

MODEL	MFR	TLU	NOTES
BC-224-A	CRV	AAA	First production BC-224 ('36/'37)
BC-224-B	CRV	BBB	Redesign of BC-224-A ('38)
BC-224-F	CDL	CCC	Output tube changed to 6K6GT
BC-224-K	CDL	CCC	Similar to -F

BC-348-B	CRV	BBB	First BC-348 (a 28-V BC-224-B
BC-348-C	CRV	?	
BC-348-E	CCT	BBB	
BC-348-H	CDL	CCC	Output tube changed to 6K6GT
BC-348-J	CWQ	DDD	Single-ended tube design
BC-348-K	CDL	CCC	Similar to -H
BC-348-L	CDL	CCC	Similar to -H
BC-348-M	CCT	BBB	Similar to -E
BC-348-N	CWQ	DDD	Similar to -J
BC-348-O	CRV	BBB	Similar to -E
BC-348-P	CCT	BBB	Similar to -E
BC-348-Q	CWQ	DDD	Similar to -J
BC-348-R	CDL	CCC	Similar to -H/has ceramic HF0 socket
BC-348-S	CDL	?	Remanufactured -C

=====

Manufacturer (MFR) codes:

CCT = Stromberg-Carlson Tel. Mfg. Co., Inc., Rochester, NY
 CDL = Belmont Radio Co., Chicago, IL
 CRV = RCA Manufacturing Co., Inc., Camden, NJ
 CWQ = Wells Gardner & Co., Chicago, IL

=====

Tube Lineup (TLU) codes:

AAA = ?
 BBB = 6B8, 6C5, 6F7, 6J7, 6K7 (3), 991, 41
 CCC = 6B8, 6C5, 6F7, 6J7, 6K7 (3), 991, 6K6GT
 DDD = 6K6GT, 6SA7, 6SJ7, 6SKY (4), 6SR7

=====

General comments:

1. 56-W DC input power required at 14-V or 28-V; 4-w more required if supplying 200-V @ 20-ma to auxiliary equipment.
2. Each receiver, with dynamotor, shock mount, and plug, weighs 40-lbs.
3. BC-348s were units of SCR-175(?) with BC-375; AN/ARC-8 with ATC or AN/ART-13.
4. BC-348s -H, -K, -L, & -R, were units of AN/ARR-11.
5. BC-348-Q was a unit of AN/MRC-35.

=====

I will be happy to learn any information relevant to these receivers from anyone. Nameplate informatikon can be very helpful in identifying

manufacturer, model, serial, and order numbers. I have a BC-348-0, however, with a nameplate that doesn't show the order number. Go figure.

If anyone has a damaged DM-24 or DM-28 dynamotor, I would be pleased to consider any price you feel is fair.

Thanks to everyone for some good reading for a long time.

Ken Corwin <kenc@smartdocs.com>

From boatanchors@theporch.com Wed Jan 31 21:46:22 1996
From: Felix Barreras <chonte@mailhost.nmt.edu>
Subject: Re: BC-224/BC-348 Receivers
Message-ID: <Pine.SUN.3.91.960131135324.13972A-1000000@black>

Hello Ken Corwin

Thanks for the informative piece on the BC-224/BC-348, I really enjoyed reading it. I have a BC-312; would you please do a piece on it, I surly would appricate it.

de Felix WB5LXA

From boatanchors@theporch.com Wed Jan 31 11:22:24 1996
From: "Christopher A. Bowne" <radiobwn@q.continuum.net>
Subject: BC-312=BC-348? NOT!
Message-ID: <199601310623.BAA25319@q.continuum.net>

A recent posting inferred that the BC-312 was a 12 volt variant of the BC-348. I beg to differ. Although the two are of similar vintage, they are completely different designs, both electrically, and mechanically. The BC-312 was used mainly in Signal Corps ground and vehicular systems, such as the SCR-193 with the BC-191 transmitter, and in the SCR-299 radio truck with the BC-610. I have never heard of it being used in an aircraft installation.

BTW, I am looking for a 312, preferably with dynamotor, to use with my BC-191 in an SCR-193 system recreation (wooden case and all). Any out there?
How about a dynamotor for my BC-348-0?

73,

Chris Bowne, AJ1G
Stonington, CT
radiobwn@q.continuum.net

AMI No. 211

From boatanchors@theporch.com Wed Jan 31 11:22:24 1996
From: arther.dent@smtp.prostar.com
Subject: Re: BC-348 "O" The O means . .
Message-ID: <199601310120.TAA14649@uro.theporch.com>

BC> Thanks for decoding the BC348 letters.

just a reminder guys and gals.....
remember in following this thread (BC-348), that most of the info for the
BC-348 also applies to the BC-312 also. the BC-312 was a 12v version of the
BC-348.. so for all you lovers of the line cord....get a BC-312 and hook
it up to your trusty 12v pwr. supply.
mike
KB7VNT

i transmit therefore i am.....

From boatanchors@theporch.com Wed Jan 31 11:22:24 1996
From: lakeith@wrdis01.robins.af.mil (Larry Keith)
Subject: Re: BC-348 "O" The O means . .
Message-ID: <199601310142.TAA20373@wrdis01.robins.af.mil>

In your message of 30 Jan 1996 at 1928 EST, you write:

> BC> Thanks for decoding the BC348 letters.
>
> just a reminder guys and gals.....
> remember in following this thread (BC-348), that most of the info for the
> BC-348 also applies to the BC-312 also. the BC-312 was a 12v version of the
> BC-348.. so for all you lovers of the line cord....get a BC-312 and hook
> it up to your trusty 12v pwr. supply.
> mike
> KB7VNT
>

And, don't forget the BC-224, a "14 volt" version of the BC-348...

Now, my question:

I have one manual for the BC-348-J, N, and Q. I have another manual

that covers the BC-348-E, M, O, P, S along with the BC-224-G, H, L models. But, I have never seen one for the BC-348-R... Can someone give me the particulars on a -R manual?

73,

Larry, KQ4BY
lakeith@wrdis01.robins.af.mil

From boatanchors@theporch.com Wed Jan 31 21:46:22 1996
From: arther.dent@smtp.prostar.com
Subject: Re: BC-348 "O" The O means . .
Message-ID: <199601312127.PAA12899@uro.theporch.com>

BC> > just a reminder guys and gals.....
BC> > remember in following this thread (BC-348), that most of the info for the
BC> > BC-348 also applies to the BC-312 also. the BC-312 was a 12v version of the
BC> > BC-348.. so for all you lovers of the line cord....get a BC-312 and
BC> hook
BC> > it up to your trusty 12v pwr. supply.
BC> > mike
BC> > KB7VNT
BC> >
BC>
BC> And, don't forget the BC-224, a "14 volt" version of the BC-348...

both of which make excellent mobile receivers.....
mike
KB7VNT

i transmit therefore i am.....

From boatanchors@theporch.com Wed Jan 31 11:22:24 1996
From: Steve Ellington <n4lq@iglou.com>
Subject: BC-348 XTAL DEAD ROCK?
Message-ID: <Pine.SOL.3.91.960130232403.27795A-100000@iglou2>

I removed the xtal from it's holder, opened it up and soaked it in "Goof Off" which seemed to dissolve the wax. Then I scrubbed it and it's holder with a tooth brush and rinsed it all off in Isopropyl Alcohol. After drying it I put it all back together for testing.

I connected my signal generator and scope across the xtal and swept across it's design freq of 915kc. Not a peep! Just to be sure, I grabbed

a few other xtals and did the same. All of them showed a pronounced peak at their design freq.

I can see nothing wrong with the xtal. Anyone got any ideas? I would prefer to keep it original but I suppose I could call PR and order one. Also, the schematic shows the I.F to be at 915kc. Is that the exact freq of the xtal?

Steve Ellington N4LQ@IGLOU.COM Louisville, Ky

From boatanchors@theporch.com Wed Jan 31 11:22:24 1996
From: Greg Raven <gsraven@cris.com>
Subject: BC-348 Xtal Filter Problem
Message-ID: <199601310139.UAA18634@franklin-fddi.cris.com>

>Well, I peaked up the I.F's as best I could on this BC-348 but that xtal
>filter is a bummer. Really, all it seems to do is knock about 30db of
>gain off the top. If it adds any selectivity I sure can't tell it. Anyone
>else have any experience with it? Maybe the xtal is bad.

>

>Furthurmore.... How come they put the xtal filter between the 1st and 2nd
>I.F.? Seems like it is usually placed at the end of the chain i.e. the
>HQ-129. What would make more sense?

>

>Steve Ellington N4LQ@IGLOU.COM Louisville, Ky

Steve, I remember an article I saw in an old 73 magazine about the BC348 xtal filter. It recommended disassembling the crystal and cleaning up the quartz element. Seems that the inside of the crystal holder can get contaminated with all kinds of goo from leaking capacitors and such. The crystal will have horrendous attenuation with all of that stuff suppressing the mechanical vibrations, as well as throw it off frequency. So maybe a VERY careful disassembly and cleaning of the crystal itself is all you need to get the xtal filter working again.

Good luck es 73,
Greg Raven KF5N

From boatanchors@theporch.com Wed Jan 31 11:22:24 1996
From: kj7f@micron.net (Terry Dobler)
Subject: Re: BC-348 Xtal Filter Problem
Message-ID: <m0thUPW-000QWmC@mis01.micron.net>

>

>>Well, I peaked up the I.F's as best I could on this BC-348 but that xtal
>>filter is a bummer. Really, all it seems to do is knock about 30db of
>>gain off the top. If it adds any selectivity I sure can't tell it. Anyone
>>else have any experience with it? Maybe the xtal is bad.
That is the current state of affairs with my BC-348Q. In the past the
crystal filter did work.

>Steve, I remember an article I saw in an old 73 magazine about the
>BC348 xtal filter. It recommended disassembling the crystal and cleaning
>up the quartz element.

Does anyone remember which month/year that was. I would like to read
it before I tear into my filer.

Terry KJ7F

From boatanchors@theporch.com Wed Jan 31 21:46:22 1996
From: don merz <71333.144@compuserve.com>
Subject: BOATANCHORS In The News!
Message-ID: <960131213927_71333.144_DHB96-2@CompuServe.COM>

I think BOATANCHORS got more press in the last 30 days than I can recall
in my years on this list. Photographs and several mentions in this month's
ER plus a mention in the latest ARC. I think I'd up the price to \$20, Jack...
73, Don

--

From boatanchors@theporch.com Wed Jan 31 11:22:24 1996
From: aa4rm%amos.UUCP@mathcs.emory.edu (Marty)
Subject: Re: Book: "Instruments of Darkness", et.al.
Message-ID: <9601310750.AA13525@amos.YP.mystnite>

Re**2 no allied tv 'til after the war.

Note this isn't a nit, but a fill.

Joe Kennedy Jr. was killed in a TV-guided B24 over the channel
in 1945. He was just about to turn over the ship to a P61
watching 'his TV.' Procedure was to bail out but the report
said he said something over the vhf intercom like "oh gosh" &
the liberator went up in a flash.

PBS on the Kennedy's said Joe Jr. was THE family star.

Our system was the ATK. Xmtr. was 2 8035s @ 300mcs, camera used 1851 iconoscope.

I've more if you wish...

Marty

From boatanchors@theporch.com Wed Jan 31 11:22:24 1996
From: "rohre" <rohre@arlut.utexas.edu>
Subject: Craig Anderson, your mail bounces
Message-ID: <n1389040132.73281@msmailgw1.arlut.utexas.edu>

Contact me by email: rohre@arlut.utexas.edu
sorry for the bandwidth to the group!
73 to all, Stuart K5KVH

From boatanchors@theporch.com Wed Jan 31 21:46:22 1996
From: Steve Ellington <n4lq@iglou.com>
Subject: Dynamotor 24V source
Message-ID: <Pine.SOL.3.91.960131162622.839A-100000@iglou>

Here's how I got my 24 volts dc for the BC-348's dynamotor.
I found in my junk pile a defunct 12 volt, 8 amp, el-cheapo, cb'ish type power supply. Something had gone wrong with the regulator section and I didn't feel like messing with it.

I measured the voltage across the large filter capacitor and voila, 24vdc. With a big grin and a pair of dikes, I began snipping out all the bogus parts leaving me with just the transformer, 2 rectifiers and filter cap.

I simply connected the red and black output terminals across the capacitor to obtain the 24v. The BC-348 only draws 2 amps so I had plenty left over. If anyone needs the extra 6 amps, let me know. I will post it on usenet. Of course by the time you get it I doubt if any will be left.

Regulation seems to be of no concern for a little receiver like this.
BTW----- I do believe 24 volt transformers are available from your local hardware/furnance/doorbell type place. Stick a few in parallel for more current. Use a full wave, two rectifier arrangement and a 50vdc filter cap ...I don't know how much filtering is needed. Probably not much.

Steve Ellington N4LQ@IGLOU.COM Louisville, Ky

From boatanchors@theporch.com Wed Jan 31 11:22:24 1996
From: Michael Neidich <neidich@interport.net>
Subject: Re: FREE: Zenith Trans-O Listing of Model Numbers
Message-ID: <310F8F92.482F@interport.net>

Michael Neidich wrote:

>
> For newcomers to boatanchors, request via email my handy reference list
> of model numbers and salient characteristics of the Zenith Trans-Oceanic
> series of short wave radios. I also act as a clearing house for tubes.
> If you have any of the T-O tube line-up (now on my latest list) let me
> know, and \$ wanted. I will be offering a color photo series of the
> L600-L soon. Let's hear from you! To get my list, just put "Free List"
> in the body of the text.
>
> 73, K2ENN

From boatanchors@theporch.com Wed Jan 31 11:22:24 1996
From: garland@MPS.OHIO-STATE.EDU (James C. Garland)
Subject: FS-Central Elect./Hallicraft./Gonset Radios
Message-ID: <01I0N03KH8Y08WXQIQ@MPS.OHIO-STATE.EDU>

Hi Everyone,

My XYL is demanding I clear out some space in the rec room, so I'm selling off a few things. I was planning on taking these radios to Dayton, but thought I'd offer it to the list first, in case anyone is interested. Prices do not include shipping.

Gonset GSB-201 Amplifer (80-10 meters, 4 811As, circa 1961): This is nearly a collector quality amplifier. The front panel, knobs and meter are flawless, as is the interior. The tubes are the original RCA 811As, with a 1961 date code. I've cleaned it and checked it thoroughly. It has original manual, which is in "like new" condition. It is all original and has full output. The amp has obviously been used very little. The only cosmetic flaws are on the cabinet, where a previous owner touched up some nicks with a paint that didn't quite match. There is also a small indentation in the cabinet on the lower left side, near the back edge. The cabinet flaws could be easily repaired.
Price \$400.

Hallicrafters SX117, HT44, PS-150-120: These Hallicrafter "twins" are in very nice condition, and include transmitter, receiver, power supply, and interconnecting cables for transceive operation. The SX117 is a triple conversion receiver, designed as a lower-cost version of the famous SX 115.

I've gone through both units with great care. They've been cleaned and thoroughly aligned and meet or exceed original factory specs. The transmit audio is exceptionally smooth (phasing type SSB) with carrier suppression better than 50db. Cosmetically, the front panels are excellent, although the white markings on some knobs have partially worn off, and the brushed inlays on some of the smaller knobs on the HT44 are marred. Depending on how fussy one is, one could also steel wool the aluminum trim piece on the front panel (removes with two screws.) The interiors of both radios are very clean. The cabinets have been refinished and look extremely nice, although I notice the color is a slightly lighter shade of grey than the stock color. I have manual copies. These are not collector grade radios, but are very attractive in appearance and work flawlessly.
Price \$400.

Central Electronics 100V: I haven't had this rig long, and don't have time to restore it properly. The front panel, knobs, meter are extremely nice, with one or two small marks on the paint. The cabinet is undented but appears to have been repainted. The color matches the original grey. The circuitry seems to be original and unmodified. According to the previous owner, the scope tube has been recently replaced (\$15 from Fair Radio Sales). The top of the chassis is dirty, and evidently hasn't been cleaned in thirty-five years. I wiped away a small section of the grime and noted that, cosmetically, the top chassis was in good condition (not VG or mint), with some surface corrosion marks evident. The underchassis area looks good, except that the output RF UHF connector has a cracked insulator. Before I sell it, I'll clean the switch contacts, go through a complete alignment (including the PTO) and electrical checkout. If I get a chance, I'll also replace some of the electrolytic capacitors. This rig doesn't belong in a museum, but with a little T.L.C. and careful cleaning should look and work good.
Price: \$275.

Jim W8ZR
Garland@MPS.OHIO-STATE.EDU
(614) 548-7277

From boatanchors@theporch.com Wed Jan 31 21:46:22 1996
From: pbock@melpar.esys.com (Paul H. Bock)
Subject: FS: Terman's "Electronic Measurements"
Message-ID: <9601311921.AA13520@syseng1.se.melpar.esys.com>

"Electronic Measurements," F. E. Terman & J. M. Pettit,
McGraw-Hill, 1952, 2nd edition. Hardbound, VGC. Make offer.

Paul, K4MSG

From boatanchors@theporch.com Wed Jan 31 21:46:22 1996
From: "JOHN WM. M. RUSSELL" <JRUSSELL@LUNDY.NIAGARAC.ON.CA>
Subject: going price for spr4
Message-ID: <960131131739.2021135d@LUNDY.NIAGARAC.ON.CA>

could anyone give me an idea of the going price range for an
DRAKE SPR4 receiver a friend is selling but doesnt want to be
burner or burnee !!! please send replies to JRUSSELL@lundy.niagarac.on.ca
thanks john ve3ll

From boatanchors@theporch.com Wed Jan 31 11:22:24 1996
From: John Kolb <jlkolb@cts.com>
Subject: Halli SX-122
Message-ID: <Pine.SCO.3.91.960130222251.4248B-100000@sd.cts.com>

Just received a SX-122, in very good shape, except the BFO knob
is missing.

Anyone have one I can trade for or buy? This is the modern
9-sided, tapered style, not round.

Also need the manual, or at least a schematic. A copy
will do fine, will gladly buy, pay postage, copying costs,
whatevers fair.

I'm starting to see what you guys mean by the clean sound of
tube gear after 20 years of sand filled radios.

John Kolb KK6IL jlkolb@cts.com

From boatanchors@theporch.com Wed Jan 31 21:46:22 1996
From: steve@hi.com (Steve Byan)
Subject: Re: Hickok Tester
Message-ID: <v02130514ad35455f7e53@[140.243.30.128]>

>If you have information from Hickok on calibration or if you have
>developed your own procedure, I and others here would be delighted to
>learn more.

Antique Radio Classified ran a short article by Alan Douglas on tube testers in the July 1995 issue - volume 12 number 7. In the article, he describes the following calibration procedure for Hickok testers. He says the same calibration procedure is applicable to every model of Hickok tube tester.

<begin quote from ARC>

The calibration procedure is to apply a known AC current to the plate circuit to see whether the meter agrees. The first step is to find the normal grid-signal voltage. Set up your tester as if you were running a 6L6 (dial settings are H-S-5-3-4-8-1 for many Hickoks), but don't plug in a 6L6. Set the bias dial to zero, push the Gm test button, and measure the AC voltage between pins 5 (grid) and 8 (cathode) of the octal socket. For the 3,000 Gm range, it will be either 5 or 2 1/2 volts (for late models).

Now connect a 120-volt isolation transformer or a step-down transformer with a secondary rating of at least 50 volts RMS in series with a known resistor between pins 3 (plate) and 8 (cathode) of the octal socket, as shown in Figure 3. [Figure 3 shows a Variac feeding a 120 volt isolation transformer. The secondary of the isolation transformer has a 10K ohm 1/4 Watt resistor in series. The output voltage is noted as "50V, RMS". -steve] This transformer should be run from a Variac to give exactly 50 volts, and the resistor should be 10 K ohms, producing 5 mA, but other combinations will do; the factory test for one Hickok model called for 30 volts and 6 K ohms. This transformer/resistor circuit substitutes a current source for the tube under test.

Assuming you have exactly 5 mA, your Gm meter should be reading 1,000, for a grid signal of 5 volts (if your meter reads backward, reverse the transformer phasing). If it doesn't read 1,000, you're in trouble, but it probably will be pretty close. Don't forget to set the line voltage to the red mark, as this will affect the grid signal. Small adjustments in meter sensitivity can be made by shifting the position of the meter's curved steel plate, which functions as a magnetic shunt.

<end quote from ARC>

The TV-2 Field and Depot Maintenance Manual (TM 11-6625-316-35) doesn't contain a calibration procedure. It does include a "Final Performance Test" which compares the Gm of a number of different types of tubes measured on the TV-2 with that measured on a "Test Set, Electron Tube AN/USM-31".

Can anyone provide some information on the "Test Set, Electron Tube AN/USM-31"? Is it a lab instrument for measuring tube characteristics?

Regards,
-Steve

Steve Byan	internet: steve@hi.com
Hitachi Computer Products (America), Inc.	
1601 Trapelo Road	phone: (617) 890-0444
Waltham, MA 02154	FAX: (617) 890-4998

From boatanchors@theporch.com Wed Jan 31 11:22:24 1996
From: David Adams <dave@flowserver.stem.com>
Subject: Info on R390
Message-ID: <9601311709.AA21628@flowserver.stem.com>

Well, I pick up my R-390 this weekend. It's modded a bit, but a good price. Can anyone point me to a source of info on this rig so that I can learn all there is to know?

Dave

=====

David J Adams	N9UXU QRP-L #83
dave@flowserver.stem.com	NorCal QRP #1442
(415) 813-5028	Flow Cytometry Specialist

From boatanchors@theporch.com Wed Jan 31 21:46:22 1996
From: baxsmith@magi.com (Baxter Smith) (by way of baxsmith@magi.com (Baxter Smith))
Subject: Info on tube and radio
Message-ID: <199601311837.NAA00962@infoweb.magi.com>

After a recent article on the Hammond Museum of Radio appeared in QST, Fred Hammond, VE3HC, received several requests for information on various topics and items. Two items on which he has requested help are the subject of this submission to the BA's group.

1. Does anyone have information on a tube made by Federal Telephone and Radio type #USN-5J29? It has been assumed that it is a magnetron since the nearest reference is a 5J26-a magnetron. This request was sent to Fred from a ham in Austria or Switzerland I believe.

2. Would someone have info on a General Electric transceiver type PRC-502? This one is thought to be a low power (ten watts or less) unit using subminiature tubes operating in the 30 to 50 megahertz band. It is assumed that it was a military field unit from the nomenclature. A manual or circuit diagrams or copies of same or info on where such might be found would be appreciated.

3. By the way if you want to see tens of thousands of square feet of BA's, Collins, Hallicrafters etc. make it a point to visit Fred's museum in Guelph, Ontario.

Thanks for any help.

J. Baxter Smith VE3BFX
baxsmith@magi.com

From boatanchors@theporch.com Wed Jan 31 21:46:22 1996
From: don merz <71333.144@compuserve.com>
Subject: Literature FS/FT
Message-ID: <960131205907_71333.144_DHB71-4@CompuServe.COM>

For Sale or Trade

CONTACT: Don Merz, N3RHT: 47 Hazel Drive, Pittsburgh, PA 15228.
412-234-8819 (weekdays, EST or leave a message anytime).
71333.144@compuserve.com

FOR SALE (or Trade)

Antique Radio Classified magazine: Over 60 issues dating back to Volume 2 to the present. \$45
1969 World Radio Labs Catalog, excellent: \$19
1967 World radio Labs Catalog, excellent: \$19
Radio Collectors Guide, McMahon. 9000 sets listed, no photos: \$8
R390/R390A Metal Knobs, 5 knobs: \$10

TRADE ITEMS (see WANT list below for possible trades)

ARRL Handbooks: 1944, 1946, 1948, 1950, 1952, 1956. All in nice shape.
Military VRC-1 Original Manual (BC-191, BC-312, SCR-542 and associated equipment in jeep)
Military BC-375E transmitter Manual
Military SCR-399/499 Manual. Complete manual for the famous WWII radio truck. 1945 date. Good condition.
RCA Radio Service News. I have about 10 issues starting with Volume 1 number 1 (1934) and going through Volume 3 (1937). This is a newspaper

format trade paper that runs about 12 pages per issue. Pictures of sexy vamps from radioland are usually featured on the front page and referred to as performing on one or other RCA-sponsored radio show. Nice amateur station photos (featuring the RCA ACR-136, etc), neat promotions for "spiderweb" antennas. Great tube introductions (the 800 is featured in one issue). These are really fun reading. Trade or make an offer.

Antique Wireless Association Annual Review Volume 1. Mint. Out of print. Trade for AWA Review Volumes 2 or 5 or ????

WANTED: MANUALS

SW-5 documentation. Was there a manual? Articles in magazines of the period?

I have the Bill Orr article but that is all. Riders?

Triplett 650 VTVM manual

Millen 92101 "Antenna Matching Preamplifier" manual

Military OBL-5 oscilloscope manual

Hallicrafters SX-62B manual

Hallicrafters SX-71 manual

Manual or ad reference or any information about Carron Model CCA Audio Beat Frequency Oscillator. This small piece of test gear has a beautiful brown, gold and gray painted front panel. It uses 6 volt metal tubes and a 6U5 tuning eye. Any help with this one will be appreciated.

Jackson Model 112 Condenser Tester manual

Military SCR-188 and SCR-199 original manuals

National NC-101X Manual (I already have the 100A manual)

Military TBX-6 manual. Will pay your price for an original (I already have a copy).

Military AM-1249/U Audio Amplifier manual

Hallicrafters SP-44 Panadapter manual--need a copy of the 1946 original issue with the schematic. I have a copy of the 1964 reprint.

Hallicrafters HT-4B Manual. As close as I've been able to come to this one is a manual copy from an HT-4C. I'd love to have a real "B" manual though, even a photocopy.

Jefferson Travis 350A transmitter/receiver manual. This is an early war military rig that was never assigned an SCR designation as far as I know.

This want has been on my list for 2 years. Your help is appreciated.

Millen 90881 500W Amplifier Manual

WANTED: REFERENCE LITERATURE

Army TM-11-227 (directory of radio gear)

Navy Bureau of Ships RADIO AND SOUND BULLETINS Number 1 through 18, any-
-photocopies okay

Navy Ships 275 Catalogue of Radio Equipment

TM-11-486 Communication Systems Engineering

TM 11-387 Ground Radio Survey

Book: Barger, Communications Equipment of the German Army, 1933-1945

Also need extra copies of 10/46, 9/49, 6/58, 11/60 and 7/61.

RADIO magazine, 1934 and earlier, January, 1936, or 1942 - 1946

QST Magazine: 1921-28, 1985 - 1989 and:

1940: 5,6,8,11,12	1948: All but 11,12
1941: 1	1950: All
1942: 1,2,5,7,9,10	1953: 1,8,12
1943: 6	1956: 3,4,6,9
1945: 1,2,8	1959: 12
1946: All but 12	

Radio-Electronics: 11/51.

Radio News: Any WWII issues with military cover photo.

Radio-TV News: 4/51.

ARRL Handbooks: 1926, 1937, 1941, 1968, 1978

AWA Review Volumes 2 and 5

AWA Old Timer's Bulletin: Any issues from Volume 17 (1976) or earlier, and:

Vol 18 (1977): Nos 1, 2 & 4	Vol 30 (1989-90): 2 & 3
Vol 19 (1978): Any	Vol 32 (1991-92): 2, 3 & 4
Vol 20 (1979): Nos 2, 3 & 4	Vol 33 (1992-93): 1, 2 & 3
Vols 21 - 27 (1980 - 1986): Any	
Vol 29 (1988): Nos 1 & 3	

Any issues of the RCA Review

From boatanchors@theporch.com Wed Jan 31 21:46:22 1996

From: don merz <71333.144@compuserve.com>

Subject: Millen and Rack help needed

Message-ID: <960131205533_71333.144_DHB71-3@CompuServe.COM>

A guy wrote me looking for some stuff which I do not have. If anyone can help on the stuff listed below, please write Fenton Wood, KB5VQ, 109 Shoreline Drive, Star Harbor, Malakoff, TX, 75148. He is looking for:

Millen 90831 modulator

A copy of the manual for the Millen 90811 20 meter TX (uses 829B)

Two 10-1/2" high 19" relay rack panels and a cabinet for them

Thanks.

Don, N3RHT

71333.144@compuserve.com

From boatanchors@theporch.com Wed Jan 31 11:22:24 1996

From: David Stinson <72227.1640@compuserve.com>

Subject: Re: Mixed cases in the BC-348

Message-ID: <960131123424_72227.1640_EHM29-1@CompuServe.COM>

Michael.J.Knudsen@att.com wrote:

>My R set does indeed have a Belmont plate inside, tho the case says

>Stromberg-Carlson (I wish).

Not to worry. During the war, depot maintainance facilities routinely mixed cases. Your rig is still authentic.

73 DE Dave Stinson AB5S/7
72227.1640@compuserve.com

From boatanchors@theporch.com Wed Jan 31 11:22:24 1996

From: Sandy Blaize <70401.134@compuserve.com>

Subject: Modifications and Customizing

Message-ID: <960131081042_70401.134_IHD53-5@CompuServe.COM>

Bill,

I couldn't agree with you more! There's been a lot of talk about using a lot of gear that was originally "dynamotor" powered, and leaving it that way. I guess if you are a 'wannabe' museum crurator, I'll go along with this. If you want

to practically USE the equipment, this sometimes is very extreme! To use say a BC454 "command" receiver in a "proper" manner, we must locate the rack, the oddball connectors, the remote tuning box, the "speedometer" tuning cable, or the special "local control" box that plugs into the front of the set in place of the

"blank" jumper box! Then find a good source of 24 volts DC. For amateur use this is totally senseless. The "box" in the front is easily modified to take a 50K

pot (gain control) and a BFO switch. Take off the dynamotor, remove the 3 pin socket from the dynamotor base and you have a power connector. I didn't ever bother with that. The racks were more trouble than they were worth! Remove the "odd ball" connector from the rear of the set, mount and octal socket in its place

and you have an "outlet" for htr/B+ voltage in and audio out. We used a standard

splined plastic radio knob with a long ferrule for tuning. They used to fit the tuning spline almost perfectly and worked very well. A lot of the receivers now have bad capacitors in them now. Where is one to find good "originals"? These are VERY oddball.

I can agree that it pains me to see a piece of surplus with 16 extra holes

in the front panel for silly or unnecessary changes, but using a piece of aircraft gear

"as is" in many instances is impractical or just plain uneconomical. My motto has

been to get the piece of gear running the simplest and most practical way with a minimum of changes. I'm sure for some of us, a 24-28 volt DC supply at many

amps. ain't our idea of practical. I have run into some very good ART-13 power supplies that retain the 24 volts for running the autotune and the relays, but run the heaters and the B+ on conventional AC powered supply units.

Just another opinion. It's YOUR piece of "surplus". Do whatever changes that suit you. If you are interested in a pristine "keeper" for posterity, put it on the shelf and just look at it. We forget the lure of older gear and boat anchors is in the fact that we can 'tinker' with them, something thats been lost on this modern Jap stuff and "hi tech" gear!

73,

Sandy Blaize, W5TVW

~~~~~

Boat Anchors collected, restored, modified and used!

From boatanchors@theporch.com Wed Jan 31 11:22:24 1996

From: Bruce Haffner <haffner@mcs.net>

Subject: Re: Need info on BC-148

Message-ID: <Pine.BSI.3.91.960130215005.12981A-100000@Mars.mcs.com>

The BC-148 was part of the SCR-131 set. There was also a BC-151, part of the SCR-161. They were early WWII, even before, my BC-151 has a order date of 1931. The 148 was a portable, loop, continuous wave telegraph transmitting and receiving set operating within a frequency band of 3,960 to 4,360 kilocycles. To quote TM-237 dated Mar. 14, 1942. It used a square brass loop ant. that went into the brackets on back of set. I have a copy of the manual and looks as if it takes a J-37 key. The set uses one VT-25 (10) tube in xmit section and three VT-24 (864) tubes in rcvr section. The rcvr uses two types of batterys and a GN-35 hand cranked generator for the xmit. The set is designed to give reliable communication by a distance of 5 miles or less. If you would like a copy of the manual e-mail me.

73,

Bruce

WD9GHK

haffner@mcs.com

-

From boatanchors@theporch.com Wed Jan 31 21:46:22 1996

From: don merz <71333.144@compuserve.com>

Subject: NO! Not the mods again!

Message-ID: <960131213624\_71333.144\_DHB96-1@CompuServe.COM>

I know I've beaten this horse before, but PLEASE DON'T MODIFY MILITARY GEAR.

..or any other gear for that matter. Sandy (who photographs well I must say...) recommends a practical approach to getting 24/28V military gear on the air.

BUT if you have UNMODIFIED military gear, I recommend an even more practical approach. The UNMODIFIED gear is worth more than the modified gear. So simply place an ad on BOATANCHORS or in ER saying that you will trade your unmodified set for a working modified one PLUS CASH. Assuming your trade is reasonable, I'm sure you will be gratified by the response. And generations of military collectors will be grateful that you saved a piece of the past in its original condition.

If you still need to solder or hacksaw something with tubes in it, then subscribe to GLOWBUGS--they have lots of neat projects under discussion over there...

Thanks.

Don, N3RHT

71333.144@compuserve.com

From boatanchors@theporch.com Wed Jan 31 11:22:24 1996

From: Bob Roehrig <broehrig@admin.aurora.edu>

Subject: RE: Organizing Postings...

Message-ID: <Pine.ULT.3.91.960130203558.15937C-1000000@admin.aurora.edu>

On Tue, 30 Jan 1996, Jeffrey Herman wrote:

> On Tue, 30 Jan 1996, Bob Roehrig wrote:

> > I do the same thing with all my QST and 73 magazines. I rip out the stuff

> > I am interested in and scrap the rest of the mag. I file the stuff by topic

> > (ant tuners, baluns, VHF antennas, HF antennas, etc.....) Sure saves time

> > looking for something.

>

> Ouch! Rather than ripping up your mags why not use the annual index

> that appears in the December QST? As for 73, if there is no yearly

> index, just make your own on a monthly basis using index cards and

> a small file box.

Hi Jeff - I appreciate your feedback. My feeling is that at my age, or I should say, during my lifetime, these mags won't become collector's items. I don't need shelves full of mostly ads. I'd rather just keep the articles. Another thing is that I doubt I'll be collecting Kenwoods, Yaesu's or Icoms like I do the glo-rigs, so I'm not interested in all the product reviews, etc.

I do have a nearly complete collection of QST between 1920 and 1951 that will remain intact.

There are so many more hams now compared to the 20's and 30's that there won't be the scarcity of today's magazines like there are with the old ones.

E-mail broehrig@admin.aurora.edu

73 de Bob, K9EUI

From boatanchors@theporch.com Wed Jan 31 11:22:24 1996

From: "Steve Hose" <NUHOSE@befac.indstate.edu>

Subject: Re: QUA Dr. Jones? - Spook BA Tombs Unearthed?

Message-ID: <22C160854EF@befac.indstate.edu>

> From: GDentHouTX@aol.com

> ..wire story from today's Houston Chronicle...

>

> 'Stay-behind' weapons stash catches up to CIA

> U.S. apologizes for supplies hidden in Austria 50 years ago

>

> "Fearful of a Soviet takeover after World War II, the United States hid  
> at least 79 (!) weapons caches in Austria for anit-communist partisans.

> The caches, containing machine guns, explosives, RADIO EQUIPMENT

> (emphasis mine!) and perhaps even gold....about the caches, which  
apparently have lain undisturbed > for 50 years (!)..."

Hea, Hea...they didn't happen to mention any EXACT locations by any  
chance did they?

73,

Steve KD1DT

ARRL LM

AMSAT LM-357

NRA LM

RSARS

RSGB

//^^\\

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/\\_/\

NUHOSE@befac.indstate.edu

(o|o)

Terre Haute, IN

-----oo00-( )-00oo-----

and

Jack the Cat

From boatanchors@theporch.com Wed Jan 31 11:22:24 1996  
From: "Frank Reid" <reid@indiana.edu>  
Subject: Re: QUA Dr. Jones? - Spook BA Tombs Unearthed?  
Message-ID: <30179.reid@ucs.indiana.edu>

> From: GDentHouTX@aol.com  
> ..wire story from today's Houston Chronicle...  
>  
> 'Stay-behind' weapons stash catches up to CIA  
> U.S. apologizes for supplies hidden in Austria 50 years  
> ago  
> "Fearful of a Soviet takeover after World War II, the United  
> States hid at least 79 (!) weapons caches in Austria for  
> anti-communist partisans. The caches, containing machine guns,  
> explosives, RADIO EQUIPMENT (emphasis mine!) and perhaps even  
> gold....about the caches, which  
> apparently have lain undisturbed for 50 years (!)..."

I've been corresponding with an Austrian friend on this subject. He says it's big news in all the media there. Many of the caches were empty; some that had been found over the years and made public were explained as American equipment captured and stashed by the Nazis. He had not heard of gold being found in any of the caches; he didn't know about radios.

He says the politics of the situation is strange; many people are glad the Americans were so thoughtful, but the communists (1/2% of voters) are the ones demanding an apology.

--

Frank reid@indiana.edu W9MKV

From boatanchors@theporch.com Wed Jan 31 11:22:24 1996  
From: "cliff (c.a.) ellement" <ellenet@bnr.ca>  
Subject: R-388 Restoration  
Message-ID: <"13756 Tue Jan 30 21:43:00 1996"@bnr.ca>

Hi,

I'm currently restoring an R388 Receiver and in need of an Antenna coil for one of the permeability tuned sections. The receiver itself is basically sound and in relatively nice shape (after a heck of cleaning!)

But there is one problem I discovered after removing The bottom cover. It seems that one of the antenna coils has snapped in two where one end is hanging only by the remaining coil wire, the trimmer cap on the unit is also broke. I suppose I could try to fix it, but there's probably a good chance of it not working as is should. The coil Ref. Symbol is L104 and the part number is 3C1084S-44.

Is there a source for R388 parts or maybe a junked R388 someone is using for parts. Also, looking for a R388 Drum Template (I've been told that someone at one time had some). Any help in located these parts or suggestions on how to go about repairing this fine receiver is very much appreciated.

Cliff Ellement  
VE3CFE

From boatanchors@theporch.com Wed Jan 31 11:22:24 1996  
From: Sandy Blaize <70401.134@compuserve.com>  
Subject: R-388 Restoration  
Message-ID: <960131081030\_70401.134\_IHD53-1@CompuServe.COM>

A "note" on one item:

The antenna coils on the R-388 were arranged for a high impedance antenna. Many were used in the AN/GRC-26 Radio Hut. One end had 10-12 foot whips for two R-388 receivers, the other end had a "tank" whip for the transmitter (usually a BC-610).

Most of the used ones I have come across all have the same problem:

Slug wires for antenna coils bent/broken, and slugs jamming in the antenna coils.

This was caused by high RF voltages heating and swelling the coil forms! If you repair or get new slugs, be sure to make sure that they go in and out of the coils

without binding at all! I have found the "swelling" can be remedied by taking out

the antenna slug rack (easily done once the springs are removed.) and gently 'filing' the inside of the coil forms with a fine chainsaw file. Use a NEW SHARP

one! If you shop around, you will be able to find a file slightly smaller than the inside of the form. Be very careful and take just a little of the 'cooked' phenolic off at a time as

the forms will break if you get too overzealous! After you are done, the problem should

not recur. Check the neon lamp mounted in the rear of the chassis too. They

are frequently broken or bad. If you MUST use a seperate receiving antenna and you run high power, use a pair of back to back rectifier diodes across the antenna terminals

and a 15-40 watt lamp in series with the "hot" antenna lead. This will keep the same thing from happening again.

73,

Sandy W5TVW

~~~~~  
Boat Anchors collected, restored. modified and used!

From boatanchors@theporch.com Wed Jan 31 11:22:24 1996

From: midshires@cix.compulink.co.uk (Andrew Emmerson)

Subject: re:Radar books etc

Message-ID: <memo.330368@cix.compulink.co.uk>

In-Reply-To: <1DAA8DD1152@kea.lincoln.ac.nz>

I've had some useful feedback on this subject recommending the book THE RADAR WAR by David Pritchard. This is indeed a superb book, well worth reading.

A very comparable book, with almost the same title (in German) is DIE RADARSCHLACHT: DIE GESCHICHTE DES HOCHFREQUENZKRIEGES by Werner Niehaus (publ. Motorbuch Verlag, Stuttgart, 1977). The title translates as The Radar Battle: The History of the High Frequency War. This runs to 250 pages and is well illustrated.

The German company AEG-Telefunken published a series of half a dozen or so detailed handbooks by first rate authors on all kinds of German WW2 radio devices; these are dripping with original photos. To begin, these books were given away as 'executive gifts' to virtually all who asked, but the supply then ran out. It would appear that AEG ceased sponsoring/subsidising these books and I think a different publisher completed the series eventually.

Finally, the American magazine RADIO-CRAFT published a well illustrated article on German radar apparatus in its December 1945 issue (pages 164-166 plus 206). I'm not sure all its interpretation is correct but the drawings are very useful.

--Andy.

From boatanchors@theporch.com Wed Jan 31 21:46:22 1996

From: haynes@cats.ucsc.edu (Jim Haynes)

Subject: Re: Radar books etc.

Message-ID: <199601311856.KAA22642@hobbes.UCSC.EDU>

I've probably said this before, but if you can find a library that has Electronics magazine from the 1940s, you can spend a fun time reading. There was a little stuff published during the war years about captured enemy equipment; and then after the war they published a flood of stuff about the technologies that had been kept secret.

From boatanchors@theporch.com Wed Jan 31 11:22:24 1996
From: USSAILIS@forum.phast.umass.edu
Subject: Radio Patents
Message-ID: <01I0MYAKHV9E00HUWH@rfd.oit.umass.edu>

One day, about 1959 or 1960, one of the owners of Automatic Radio came into the lab and announced that the Hazeltine and RCA patents had "expired some time ago." >From then on we dropped the "licensed" sticker and/or embossing from the entire product line. This included portables, auto radios, etc.

Jim, W1EQ0

From boatanchors@theporch.com Wed Jan 31 11:22:24 1996
From: USSAILIS@forum.phast.umass.edu
Subject: RE Radioactive tubes
Message-ID: <01I0MXXVRVPE00HUWH@rfd.oit.umass.edu>

Lets not go so far afield as lantern mantels and smoke detectors. I am sure that the EPA would want to make us safe from bricks, rocks, and concrete. And don't forget olde Sol up there in the sky. Doesen't he throw off high energycharged particles?
Now are thoriated filaments made from thorium?
Jim, W1EQ0

From boatanchors@theporch.com Wed Jan 31 21:46:22 1996
From: larrys@fmis02.nsc.com
Subject: Radioactive VR tubes
Message-ID: <96013012354193@fmis02.nsc.com>

I apologize in advance for not being able to include excerpts of the original message (actually I only saw a reply) - the way I run my web browser makes it difficult to copy/paste.

In any case, someone was inquiring about the color of the plasma in OA2's and OB2's, etc., and also noted a radioactive label. BE CAREFUL WITH THESE TUBES - A small quantity of radioactive material (radium?) was used in manufacture to make the tubes fire more reliably (or at a lower applied

voltage). They are pretty safe UNLESS BROKEN, in which case radioactive dust can be released and breathed on ingested - CANCER RISK!!!! This was not done to all of the VR tubes, but if the tube is marked as such, it definitely has the radioactive material. Any given type, OA2 for example, may or may not have been manufactured this way - the telltale sign is the marking. However, the marking could well be worn off, so treat all VR tubes with caution!

Let's be carefull out there...

73,
Larry (ARS NE1S, larrys@fmis02.nsc.com)

From boatanchors@theporch.com Wed Jan 31 21:46:22 1996
From: pbock@melpar.esys.com (Paul H. Bock)
Subject: Re: Radioactive VR tubes
Message-ID: <9601311830.AA12178@syseng1.se.melpar.esys.com>

>A small quantity of radiactive material (radium?) was used in
>manufacture to make the tubes fire more reliably (or at a lower applied
>voltage). They are pretty safe UNLESS BROKEN, in which case radioactive
>dust can be released and breathed or ingested

I posted on this some time ago, but.....during the 1960s, one of the ORI procedures for ships going through Underway Training (aka "shakedown cruise") at Gitmo was to smash an OA2 and have one of the ETs do a "cleanup" of the remains. Wearing rubber gloves, goggles, and a dust mask, the tech used tongs to pick up all the large pieces, then very carefully proceeded to wipe/fold/wipe/fold/wipe/fold, etc., until the area was clean. All of the debris, wiping rags, tongs, etc., went into an ammo box, which was then sealed up, marked "radioactive material," and turned in to Supply for disposal - which at sea probably meant they just chucked it over the side when no one was looking....;-)

The procedure may have been overkill, but the hazard *IS* there.....you just have to decide how much risk you're willing to take with possible long-term effects.

73 DE K4MSG

(|_|) * Paul H. Bock, Jr. * Principal Systems Engineer
| |) * ETCM (RET) * Internet: pbock@melpar.esys.com
* Telephone: (703) 560-5000 x2062

From boatanchors@theporch.com Wed Jan 31 21:46:22 1996
From: garland@MPS.OHIO-STATE.EDU (James C. Garland)
Subject: Re: re swinging chokes
Message-ID: <01I0NUM7QBJ08WXQIQ@MPS.OHIO-STATE.EDU>

>
> A swing choke is used from the output of a recifier to a capacitor
>to ground. The swing feature prevents the capacitor from charging up to
>the peak of the sine wave on lighter loads, thereby greatly improving the
>passive voltage regulation of the supply. If the load on the supply does
>not have high enough low level current, it has been the practive to add
>a lower resistance than usual "bleeder" resistor. About a 5 to 1 change

>in inductance is about all that can be achieved in such a choke, so this
>is about all the variation in current that can be handled.
>

I'd be interested in hearing someone explain how a swinging choke actually works. I'm guessing that the permeability of the core weakens with the self-magnetic field created by the current through the winding, but I'm surprised this effect is large enough to create a 5:1 inductance change.

Jim W8ZR

From boatanchors@theporch.com Wed Jan 31 11:22:24 1996
From: Scott_Johnson-AZAX60@email.sps.mot.com
Subject: RE>Re- RE>Re- WWII german t
Message-ID: <"Macintosh */PRMD=MOT/ADMD=MOT/C=US/"@MHS>

RE>Re: RE>Re- WWII german tube ID 1/31/96
Could be. That system was of nomenclature was used from the early thirties through the end of the war. RV12P2000 are very common in later gear, such as the FuG10 series. My TornEB uses RV2P800's, as it is a battery set. I do have a Nazi tube manual somewhere, if you really want to know specifics on your tube.

73, Scott

From boatanchors@theporch.com Wed Jan 31 21:46:22 1996
From: Witmerjr@aol.com
Subject: SB-100 Distorted Transmit Audio "Cure"
Message-ID: <960131162230_308479147@emout04.mail.aol.com>

Thanks for all the suggestions on fixing the transmit audio problems in my SB-100. It's fixed now and I thought you might be interested in what I found.

The cathode resistor of the 6EA8 speech amplifier tube V1A, which is supposed to have a value of 1000 ohms, measured 100 ohms. The 10 MFD electrolytic cap bypassing this resistor appeared to be a DC short. Both these components were replaced but didn't fix the clipped/distorted audio. During one of the QSOs immediately after applying these fixes I got a different report that the audio sounded like it had RF in it.

Based on this comment I added a 470 pF ceramic cap directly from pin 2 of the tube socket to ground. In addition, I tightened all of the screws that fasten the circuit board to the metal chassis.

This last set of changes fixed the problem. I'm not sure which of these actions solved it - but I wasn't about to fool around once the problem was solved.

Bob Witmer
W3RW
witmerjr@aol.com

From boatanchors@theporch.com Wed Jan 31 11:22:24 1996
From: wb6zwc@ns.net
Subject: sealant for tube to base
Message-ID: <2.2.16.19960130191638.31bf3cb4@ns.net>

Well, I trashed the info on the final outcome on the proper sealant to use between the tube and its base.

Got a couple of 866's that have been turned a few too many times in the socket.

Anybody remember what sealant to use to fix the problem?

Has to be tuff stuff and heat resistant.

Richard wb6zwc@ns.net
Still looking for Bleeder
Resistors 7.5 K @ 160 Watts

& 575A's

From boatanchors@theporch.com Wed Jan 31 21:46:22 1996
From: flanders@GroupZ.net (Jerry Flanders)
Subject: Re:sealant for tube to base
Message-ID: <199601311849.MAA07904@uro.theporch.com>

>Got a couple of 866's that have been turned a few too many times in
>the socket.

>Anybody remember what sealant to use to fix the problem?

>Has to be tuff stuff and heat resistant.

>Richard wb6zwc@ns.net

=====

Richard, I think I would use Silicone RTV for that - sticks very well to glass (they put aquariums together with it). The regular stuff sold as household sealant should work OK, but you can get a VERY high temp version of it in the auto parts store - it is sold as high-temp gasket RTV. I don't know if it would conduct, so I would not let it flow way down into the base where the wires are.

Jerry Flanders W4UKU flanders@groupz.net

From boatanchors@theporch.com Wed Jan 31 11:22:24 1996
From: "Richard B. Fiske" <73562.3117@compuserve.com>
Subject: Subscribe
Message-ID: <960131004349_73562.3117_FHD60-1@CompuServe.COM>

I would like to subscribe

From boatanchors@theporch.com Wed Jan 31 21:46:22 1996
From: "Emil Switzer" <switzer_e%a1.clust.CLUST.umc@engult.lxe.com>
Subject: re swinging chokes
Message-ID: <04342113106991/87964@CLUST>

----- Forwarded message

Posted: Tue, 30 Jan 96 12:26:01 -0500
From boatanchors@theporch.com Wed Jan 31 21:46:22 1996
From: pbock@melpar.esys.com (Paul H. Bock)
Subject: Terman's "Electronic Measurements" SOLD
Message-ID: <9601312216.AA18344@syseng1.se.melpar.esys.com>

Tentatively "sold." If the deal folds, I'll re-mail.
Thanks.

73,

Paul, K4MSG

From boatanchors@theporch.com Wed Jan 31 21:46:22 1996
From: George Hamner <73514.1103@compuserve.com>
Subject: Re: True Story HamRadio Goes to WAR
Message-ID: <960131204542_73514.1103_EHT51-2@CompuServe.COM>

On 1/30, Ed Gable us told a story about the "G-Men" seizing a ham radio receiver during the early years of WWII and asked, "I wonder if anyone else has heard such tales?" I certainly have, and maybe this will give me an opportunity to validate my story.

This past summer my father brought up to me from my home town in Alabama a Hammarlund HQ-120 that had belonged to my old scoutmaster. When he died, his son remembered that I was interested in antique electronics and called my dad. Underneath a thick layer of red Alabama dust was a beautiful HQ-120-X, in the (I believe more rare?) black color, serial # 9169, with matching speaker and original manual. I finally found time to restore it this Fall and it works great! The HQ-120 has always been a favorite of mine and I have another one in gray, configured for rack mounting.

I seemed to remember from years ago a similar story to that of W2ABC about the government seizing this receiver, but unlike the RCA ACR-165, the HQ-120 was rebuilt and recapped and returned to the owner after the war. Hoping to validate the story, I called the original owner's son. Much to my disappointment, he said the story sounded familiar, but that "you couldn't believe all of dad's tall tales!" I figured I had reached a dead end until I saw the post on

Boatanchors!

The only evidence I have found is that my other HQ-120 is full of beige Aerovox paper caps (ALL original and working just fine BTW) and the "WWII vet" has all light blue Solar caps. Of course, Hammarlund may have used both suppliers?

The original owner of this set was Edgar Christopher, W4MAB of Tuscaloosa, AL. However, the one thing I did learn from his son was that, if the story is true, it would have taken place in Logan, WVa., and probably in 1942.

Any more tales? Any help with this one? I would love to find out where my WWII vet served!

George Hamner
73514.1103@compuserve.com

From boatanchors@theporch.com Wed Jan 31 21:46:22 1996
From: don merz <71333.144@compuserve.com>
Subject: Want/Trade ideas
Message-ID: <960131205115_71333.144_DHB71-2@CompuServe.COM>

Want/Trade ideas...

I've had an ID-6/APN-4 display in my garage for quite some time along with a parts unit for same. This is a display from the first LORAN. The other components are the APN-4 receiver itself and the PE-206 dynamotor. I can't seem to find a buyer interested in the ID-6/APN-4. So maybe if it won't go away, I should just try to make a complete one and call it a piece of history! So if anyone has an APN-4 or PE-206 they want to sell or trade, I'd appreciate hearing from you.

Also, I have a Hammarlund Shortwave Manual, circa 1935 or so in excellent original shape. I'd like to trade this for an original copy of Gernsback's 1934 Shortwave Radio Manual. Anyone interested in that swap? Let me know...

Thanks.
Don, N3RHT
71333.144@compuserve.com

From boatanchors@theporch.com Wed Jan 31 11:22:24 1996
From: "S. Miller" <smiller@motown.ge.com>

Subject: re:what radio do I have

Message-ID: <199601311531.KAA01548@bear.MOTOWN.GE.COM>

It must be raining Hammarlunds! I too was just given one of these beasts but alas no power supply. The radio is dirty but complete and appears 100% original. It covers 100 to 200Khz and 200 to 400Khz, and 2.5 to 5.0 and 5.0 to 10 and 10 to 20 Mc. I am told that it is an SP-210LX. The LX being for the low freqs covered. I hope this helps and if anyone has any documentation I (we) could use it.

Steve, Kd2Ed

smiller@motown.ge.com

From boatanchors@theporch.com Wed Jan 31 11:22:24 1996

From: grohman@magicnet.net (gregory h rohman)

Subject: what radio do i have????

Message-ID: <199601311451.JAA24318@magicnet.magicnet.net>

I need help identifying the model of a hammarlund super pro I was given recently. I have never had a short wave radio before and know very little about them. This radio is huge it has an external power supply and each item weighs about 80 pounds or so. I can't find any markings on it other than on the front it says hammarlund super pro new york. The radio works great and I use it to the best of my ability but I do not know what some of the knobs are for. Is anyone familiar with these radios? How can I identify it?? Is there a source that can provide me with a copy of the manual for it??? The only other info I can offer is that it is green, the main tuning and band spread knobs are bigger than the rest of the knobs... Thanks for your time and help.

Greg...